#### Massachusetts HIV/AIDS Data Fact Sheet

### Who is experiencing differential impact from HIV/AIDS?

March 2007

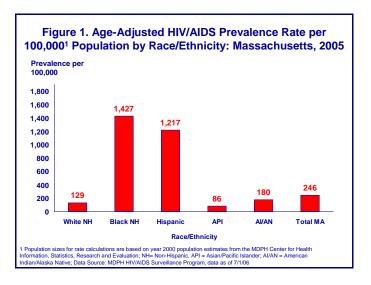
#### **Overview**

HIV/AIDS does not affect all Massachusetts populations equally. One way to reveal which racial/ethnic groups are experiencing differential impact is to compare HIV/AIDS prevalence (people living with HIV/AIDS) and diagnoses of HIV infection per 100,000 population. These rates are age-adjusted to make comparison across groups more valid.<sup>1</sup>

In Massachusetts, the age-adjusted prevalence rate of HIV/AIDS varies substantially by race/ethnicity. The age-adjusted prevalence rate among black (non-Hispanic) individuals (1,427 per 100,000) is 11 times greater, and among Hispanic individuals (1,217 per 100,000) is 9 times greater than for white (non-Hispanic) individuals (129 per 100,000). Similarly, black (non-Hispanic) and Hispanic individuals have been diagnosed with HIV infection in recent years at higher rates than white (non-Hispanic) individuals. The age-adjusted average annual rate of HIV diagnosis from 2003 to 2005 among black (non-Hispanic) individuals (89 per 100,000) is 15 times greater, and among Hispanic individuals (63 per 100,000) is 11 times greater than for white (non-Hispanic) individuals (6 per 100,000).

The following analyses describe age-adjusted rates of HIV/AIDS prevalence and recent diagnosis of HIV infection per 100,000 in Massachusetts.

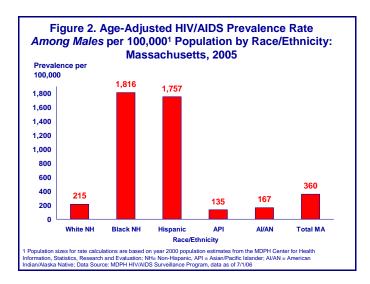
## Age-Adjusted Rate of HIV/AIDS Prevalence (People Living with HIV/AIDS) by Race/Ethnicity



- On December 31, 2005, out of every 100,000 people in Massachusetts, 246 were living with HIV/AIDS (rate adjusted for age of the population groups).
- The age-adjusted prevalence rate of HIV/AIDS among black (non-Hispanic) individuals (1,427 per 100,000) is 11 times greater, and among Hispanic individuals (1,217 per 100,000) is 9 times greater than for white (non-Hispanic) individuals (129 per 100,000).
- When considering the differential impact of HIV/AIDS by race/ethnicity, it is important to note that, within the broad category of race/ethnicity, there are differences by place of birth. For example, 39% of black (non-Hispanic) individuals living with HIV/AIDS are non USborn as compared to 5% of white (non-Hispanic) individuals. Non US-born black (non-Hispanic) individuals living with HIV/AIDS are primarily from Sub-Saharan Africa and the Caribbean Basin, whereas non US-born white (non-Hispanic) individuals are primarily from North America and Europe.

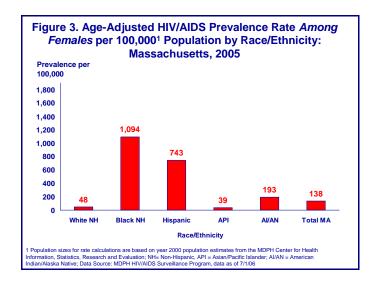
<sup>&</sup>lt;sup>1</sup> See the detailed data tables and technical notes in the Appendix for a full description of age-adjustment and sample calculations.

## Age-Adjusted Rate of HIV/AIDS Prevalence (People Living with HIV/AIDS) by Race/Ethnicity for *Males*



- On December 31, 2005, out of every 100,000 males in Massachusetts, 360 were living with HIV/AIDS (rate adjusted for age of population groups).
- The age-adjusted prevalence rate of HIV/AIDS among both black (non-Hispanic) males (1,816 per 100,000) and Hispanic males (1,757 per 100,000) is 8 times greater than for white (non-Hispanic) males (215 per 100,000).

## Age-Adjusted Rate of HIV/AIDS Prevalence (People Living with HIV/AIDS) by Race/Ethnicity for *Females*

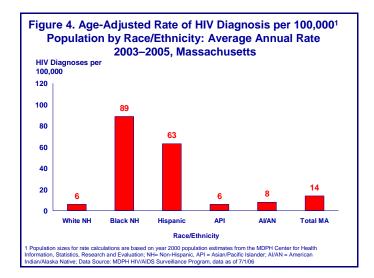


- On December 31, 2005, out of every 100,000 females in Massachusetts, 138 were living with HIV/AIDS (rate adjusted for age of population groups).
- The age-adjusted prevalence rate of HIV/AIDS among black (non-Hispanic) **females** (1,094 per 100,000) is 23 times greater, and among Hispanic **females** (743 per 100,000) is 15 times greater than for white (non-Hispanic) **females** (48 per 100,000).

# Rate of HIV/AIDS Prevalence (People Living with HIV/AIDS) by Race/Ethnicity and Health Service Region (HSR) in Massachusetts

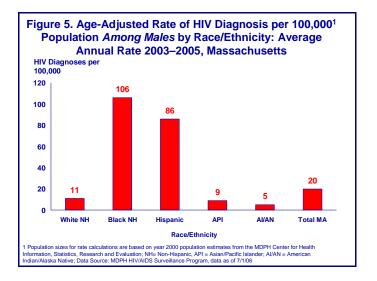
- The Boston HSR has the highest age-adjusted prevalence rate of HIV/AIDS among regions at 766 per 100,000.
- In each region, the age-adjusted prevalence rate of HIV/AIDS among black (non-Hispanic) individuals and Hispanic individuals is higher than among white (non-Hispanic) individuals.
- Among regions, the highest age-adjusted prevalence rate of HIV/AIDS for black (non-Hispanic) individuals is in the Central region at 1,611 per 100,000.
- Among regions, the highest age-adjusted prevalence rate of HIV/AIDS for Hispanic individuals is in the Western region at 1,662 per 100,000. This rate is 22 times the rate for white (non-Hispanic) individuals in the Western region (75 per 100,000).
- Unlike the other health service regions where the age-adjusted prevalence rate of HIV/AIDS among white (non-Hispanic) individuals is higher than among Asian/Pacific Islanders, in the Northeast region the age-adjusted prevalence rate of HIV/AIDS is 133 per 100,000 for Asian/Pacific Islanders and 95 per 100,000 for white (non-Hispanic) individuals.

### Average Annual Rate of HIV Diagnosis by Race/Ethnicity, 2003–2005



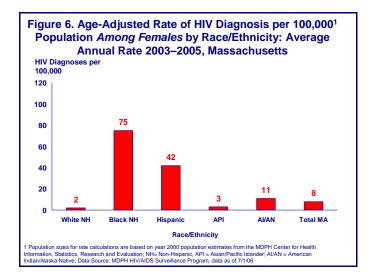
- Out of every 100,000 people in Massachusetts, an average of 14 people were diagnosed with HIV infection each year within the three-year period 2003 to 2005 (rate adjusted for age of the population groups).
- The age-adjusted average annual rate of HIV diagnosis within the three-year period 2003 to 2005 among black (non-Hispanic) individuals (89 per 100,000) is 15 times greater, and among Hispanic individuals (63 per 100,000) is 11 times greater than for white (non-Hispanic) individuals (6 per 100,000).
- As with HIV/AIDS prevalence, there are differences by place of birth. For example, 50% of black (non-Hispanic) individuals diagnosed with HIV infection within the three-year period 2003 to 2005 are non US-born as compared to 7% of white (non-Hispanic) individuals. Non US-born black (non-Hispanic) individuals diagnosed with HIV infection from 2003 to 2005 are primarily from Sub-Saharan Africa and the Caribbean Basin whereas non US-born white (non-Hispanic) individuals are primarily from Central and South America.

### Average Annual Rate of HIV Diagnosis by Race/Ethnicity for *Males*, 2003–2005



- Out of every 100,000 males in Massachusetts, there was an average of 20 diagnosed with HIV infection each year within the three-year period 2003 to 2005 (rate adjusted for age of the population groups).
- The age-adjusted average annual rate of HIV diagnosis within the three-year period 2003 to 2005 among black (non-Hispanic) males (106 per 100,000) is 10 times greater, and among Hispanic males (86 per 100,000) is 8 times greater than for white (non-Hispanic) males (11 per 100,000).

## Average Annual Rate of HIV Diagnosis by Race/Ethnicity for *Females*, 2003–2005



- For every 100,000 females living in Massachusetts, there was an average of 8 diagnosed with HIV infection each year within the three-year period 2003 to 2005 (rate adjusted for age of the population groups).
- The age-adjusted average annual rate of HIV diagnosis within the three-year period 2003 to 2005 among black (non-Hispanic) females (75 per 100,000) is 38 times greater, and among Hispanic females (42 per 100,000) is 21 times greater than for white (non-Hispanic) females (2 per 100,000).

## Average Annual Rate of HIV Diagnosis by Race/Ethnicity and Health Service Region (HSR), 2003–2005

- Among regions, the Boston HSR has the highest age-adjusted average annual rate of diagnosis of HIV infection within the three-year period 2003 to 2005 at 40 per 100,000.
- In each region, the age-adjusted average annual rate of HIV diagnosis among black (non-Hispanic) and Hispanic individuals is higher than among white (non-Hispanic) individuals.
- Among regions, the highest age-adjusted average annual rate of HIV diagnosis for black (non-Hispanic) individuals is in the Central HSR at 135 per 100,000.

- The Western HSR has the highest age-adjusted average annual rate of HIV diagnosis for Asian/Pacific Islanders at 15 per 100,000.
- Among regions, the highest age-adjusted average annual rate of HIV diagnosis for Hispanic individuals is in the Western HSR at 99 per 100,000.
- Among regions, the highest age-adjusted average annual rate of HIV diagnosis for white (non-Hispanic) individuals is in the Boston HSR at 25 per 100,000.

#### Data Source:

HIV/AIDS Case Data: Massachusetts Department of Public Health, HIV/AIDS Surveillance System, All Data as of 7/1/06